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United States Environmental Protection Agency
Washington, DC 20460

ORIGINAL

Document Description	Date
SAT 701-31	11/1/00

[redacted]

EPA Form 7740-9 (rev. 10/92) Previous edition is obsolete

STRUCTURE ACTIVITY TEAM REPORT ver. 04/98 [redacted]

Case #: P-01-0031	**DCN:**
SAT Date: 10/20/2000	**SAT Chair:** V. Nabholz

RECEIVED
OPPT CBIC
2000 NOV -1 AM

Submitter: [redacted]

Chemical Name:

[redacted]

CAS RN: None	**Trade Name:** [redacted]

Structure

[redacted]

Molecular Formula: [redacted]

Molecular Wt. [redacted]	**WT%<500:** [redacted]	**WT%<1000:** [redacted]
MP: -2.00	**BP:**	**Eq. Wt:**
H2O Sol (g/L): >100	**V.P.** <0.000001	
Max. Prod. Volume (kg/yr): [redacted]	**Physical State:** Liquid	

USE:

Lubricant for both offshore and onshore oil production sites. No references found.

Related Case Numbers	Case Role	Related Case Numbers	Case Role

Focus **Date:** OCT 30 2000 **Results:** DROP

50010000642/0

STRUCTURE ACTIVITY TEAM REPORT 20 October 2000 CBI

CASE NUMBER: **P01-0031**

RELATED CASES: [redacted]

CONCLUSIONS/DISCUSSIONS

TYPE OF CONCERN:	HEALTH	ECOTOX
LEVEL:	1-2	1

KEYWORDS: LUNG, DEVEL, NEURO, LIVER, KIDNEY, SENS-L,S

SUMMARY OF ASSESSMENT:

FATE: [redacted];
liquid with mp -2.0 C (M);
log Kow for the covalent salt = -3.7 (SRC);
S = 1000 g/L at 20 °C (P);
vp < 1.0E-6 mm Hg or torr at 25 °C (P);
bp >400 °C (P);
H < 1.0E-8 (P);
log Koc = 1.0 (P);
log fish BCF = 0.50 (P);
POTW removal = 25 to 90% via uncertain biodegradation;
submitted test data were:
16.5% in 28 d in seawater, thus, not readily biodegradable
(OECD306: closed bottle test);
time for complete ultimate aerobic biodegradation = months;
sorption to soils and sediments = moderate to strong;
PBT Potential: P1B1T2
*CEB FATE: migration to ground water = slow to moderate;

HEALTH: Absorption is nil thru skin based on physical/chemical properties; good thru lungs based on physical/chemical properties; and good thru GI tract based on analogs;

concern for lung toxicity if inhaled due to surfactancy from the anion;
concerns for [redacted] are developmental toxicity, neurotoxicity, pulmonary sensitization, i.e., asthma, liver toxicity, skin sensitization, and kidney toxicity;

low-moderate concern for toxicity;
*CEB HEALTH: Exposures to humans: inhalation, dermal, ingestion, and drinking water;

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:

FRESHWATER			
fish 96-h LC50	>	100.0	P
daphnid 48-h LC50	>	100.0	P

green algal 96-h EC50 > 100.0 P
fish chronic value > 10.0 P
daphnid ChV > 10.0 P
algal ChV > 10.0 P

SALTWATER
fish (T) 96-h LC50 = 2500.0 M SR48,N purity unk

Predictions are based on SARs for anionic surfactants-phosphate [redacted].soluble salt; SAR chemical class = [redacted]
pH7; effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <180.0 mg/L as CaCO3; and TOC <2.0 mg/L;
low concern for toxicity;
assessment factor = 10.0
concern concentration = 1.0
*CEB ECOTOX: No releases to water;

SAT Co-chairperson: Vince Nabholz, 260-1271

BIOLOGICAL TEST INFORMATION					
Case Number: **P-01-31**	Date Received: **10/10/00**	Rev. Init: **KMW**	OECD Status: **Incomplete**	Page: 1 of 1	
Other Data:	[X]Ecotox	[X]Fate **biodegradability, p.51; biodegradability, p.88**	[]Water solubility/Log P		%ai

NCSAB SAT REPORT		CBI? (Y/N):
PMN: P-01-0031	CAS RN: None	
Chemical Name: [redacted]		Analogs:
		PV: [redacted]

Structure: [redacted]

Use:

Lubricant for both offshore and onshore oil production sites.
No references found.

Formula: [redacted]		Eq Wt:	
MW: [redacted]		Wt%<500: [redacted]	t%<1000 [redacted]
MP: -2.0		BP:	VP: <0.000001
WS g/L (E): >100	Physical State: Liquid		Log P:

Endpoint (mg/L)	Est. Value	Meas. Value	Comments
Fish 96-h	>100		
Daphnid 48-h	>100		
Algal 96-h	>100		
Fish ChV	>10		
Daphnid ChV	>10		
Algal ChV	>10		
BCF			

CHEMICAL CLASS:			SAR: [redacted]		
ECOTOX CONCERN	H	M	L	CONCERN CONCENTRATION	1.0
DATE: Oct. 19, 2000			ASSESSOR:		

OPPT STRUCTURE ACTIVITY TEAM (SAT) MEETING DATE OCT 20 2000

ATTENDEES	SIGNATURE
CHEMISTRY	
___ Paul Bickart	
___ Diana Darling	
___ Rich Engler	
___ Greg Fritz	
___ Fred Metz	
___ Daniel Lin	
✓ Kathy Schechter	Kathy Schechter
___ _____	
ENVIRONMENTAL FATE	
___ Bob Boethling	
___ David Lynch	
✓ Gary Thom	MEMO
___ _____	
___ _____	
HEALTH	
✓ Katherine Anitole	Katherine Anitole
✓ Michael Cimino	
___ Ilda McKenna	
✓ Leonard Keifer	
✓ David Lai	
___ Jim Murphy	
___ Deborah Norris	
✓ Ronald Ward	MEMO
___ Yin Tak Woo	
___ _____	
___ _____	
ENVIRONMENTAL EFFECTS	
___ Gordon Cash	
___ Vince Nabholz	
✓ Maggie Wilson	MEMO
___ _____	
SAT CHAIRPERSON/OTHER	
___ Rebecca Jones	
___ Leonard Keifer	
✓ Vince Nabholz	
___ _____	
___ Robert Morcock	
✓ Anna Coutsakis	